

Fig.1. (Prior Art)

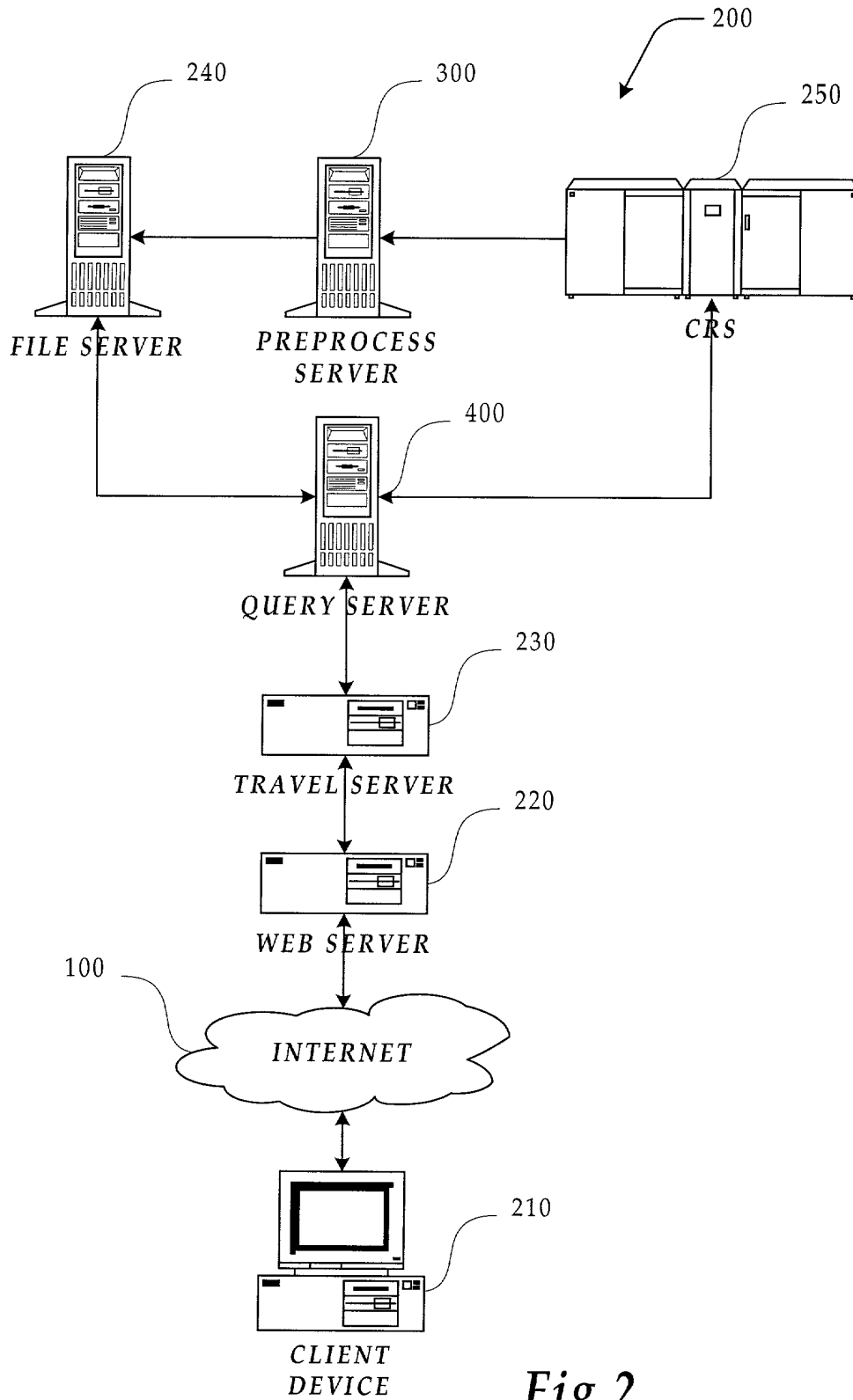


Fig.2.

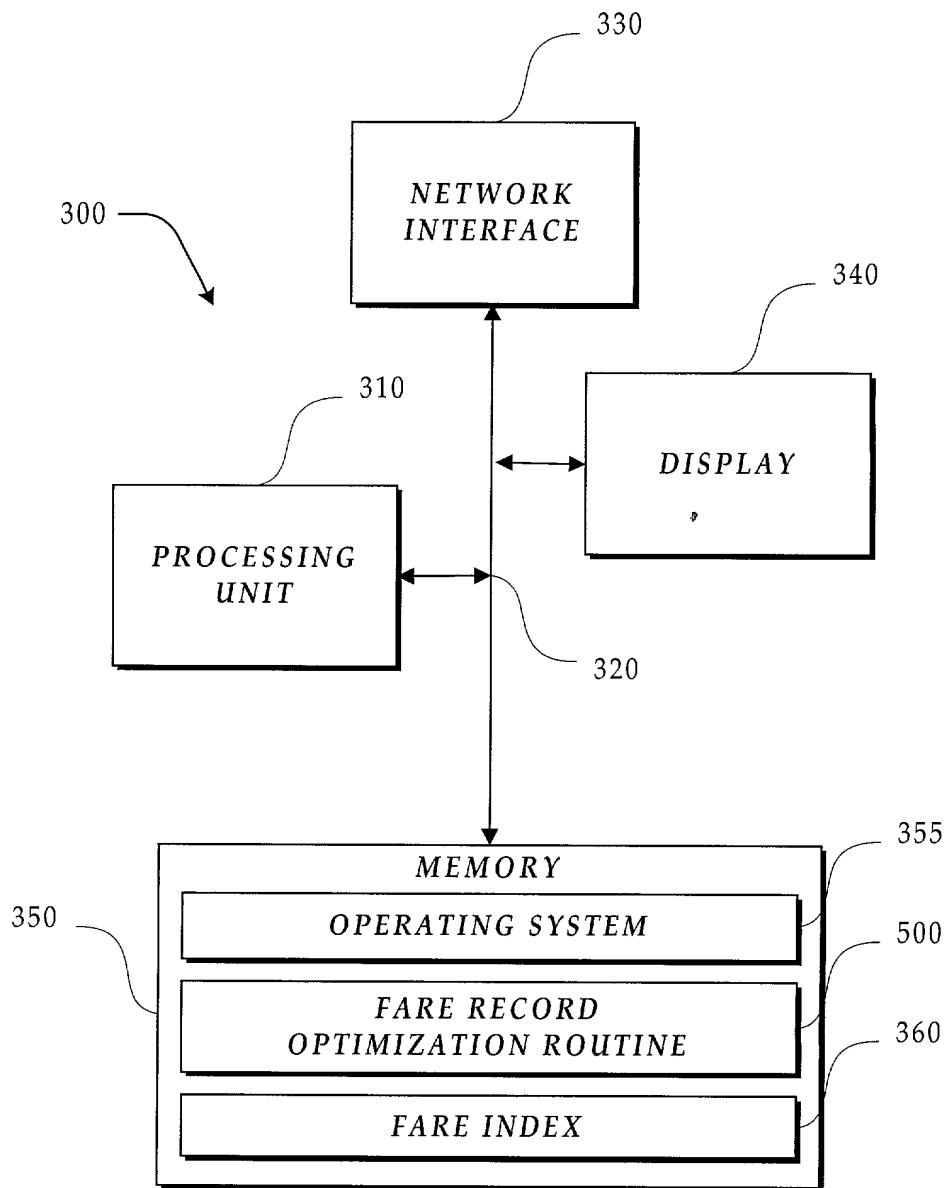


Fig.3.

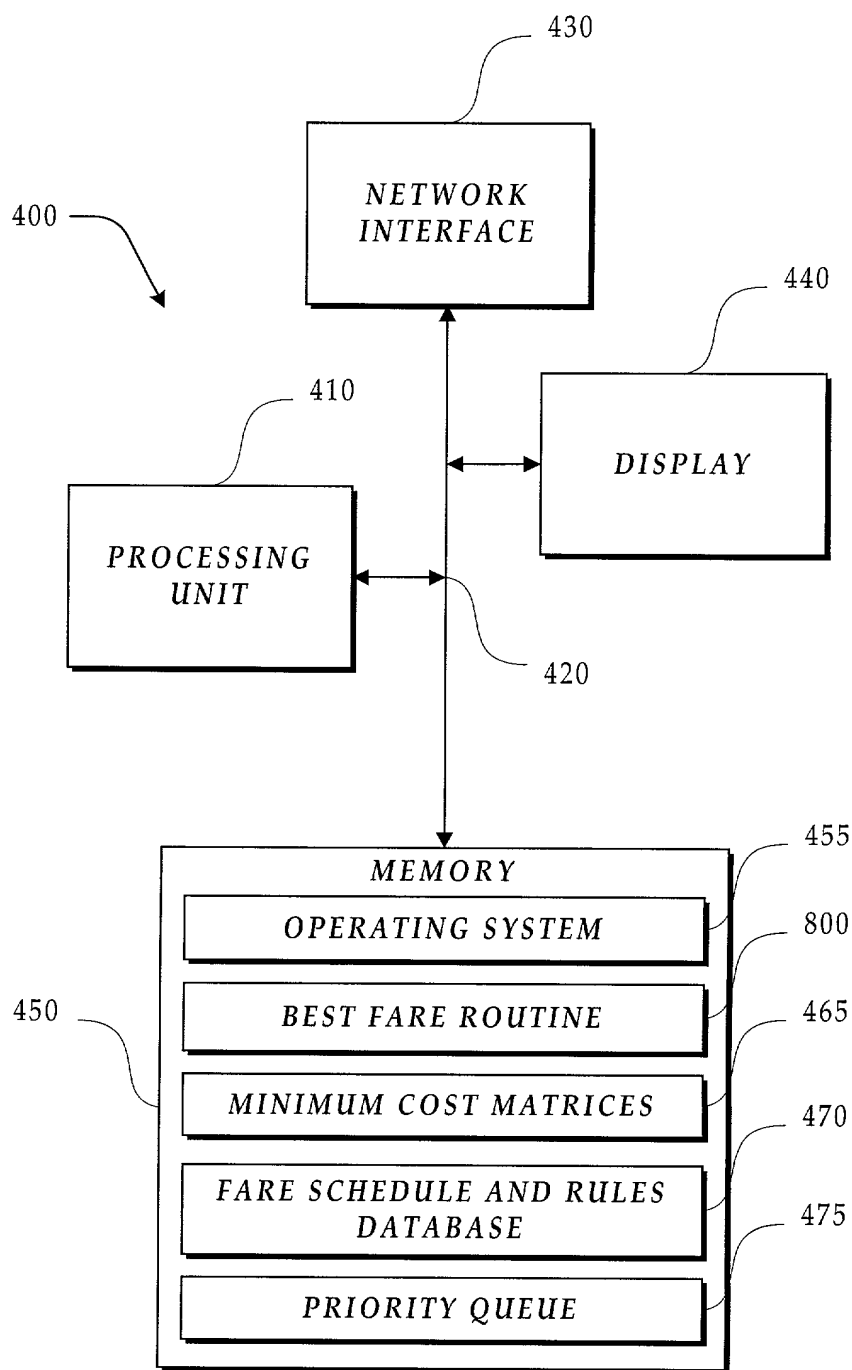


Fig.4.

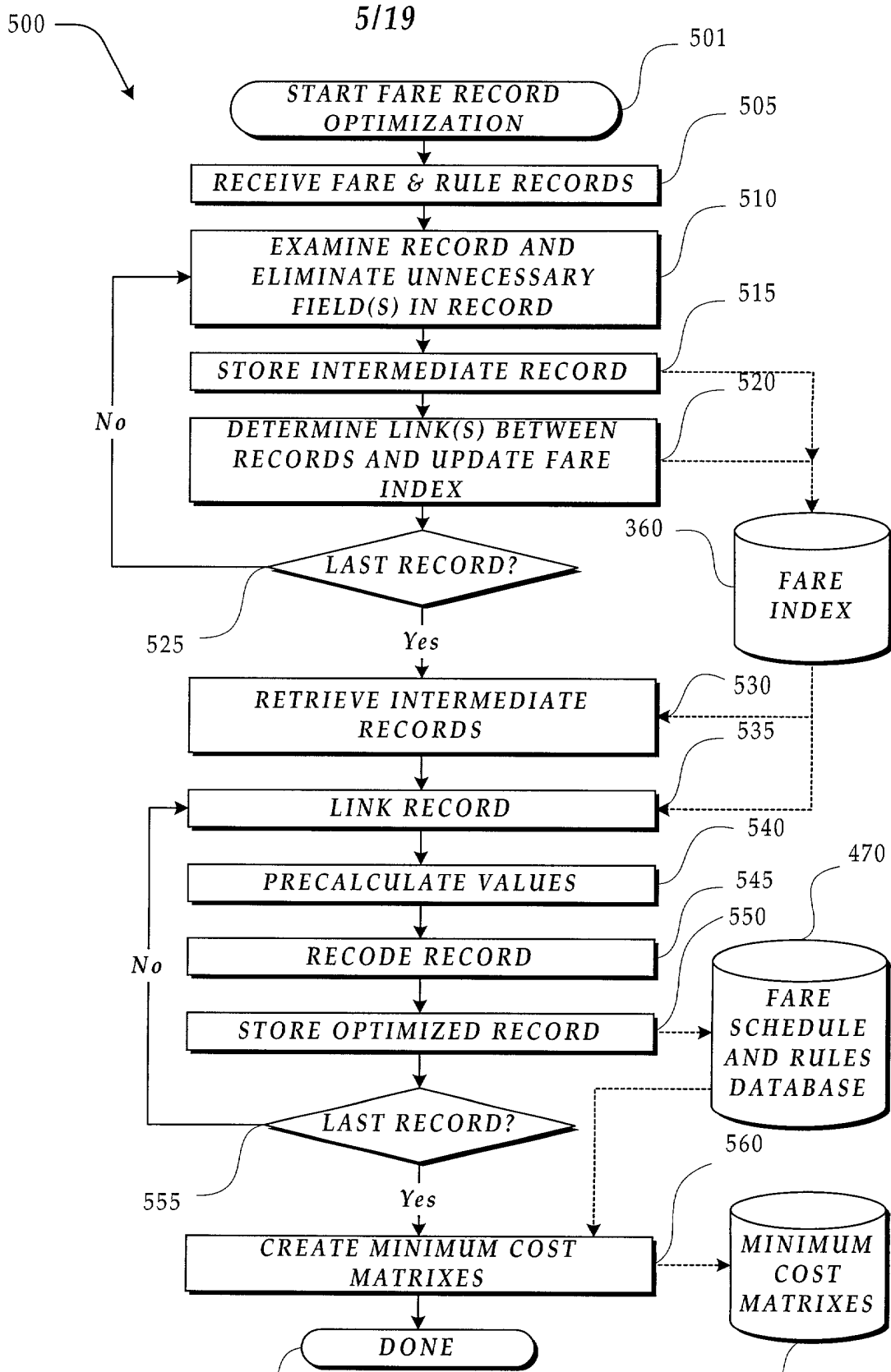


Fig.5.

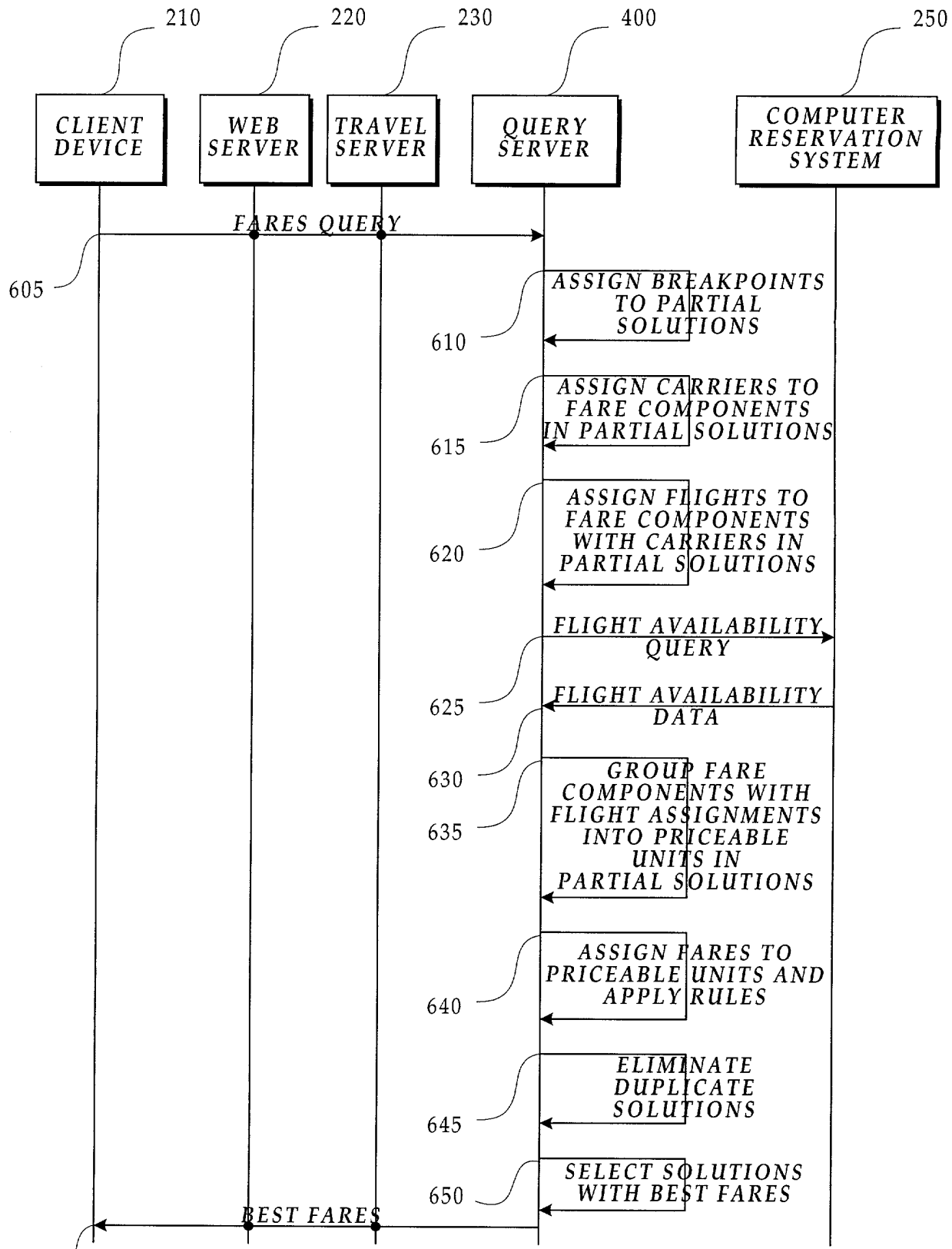
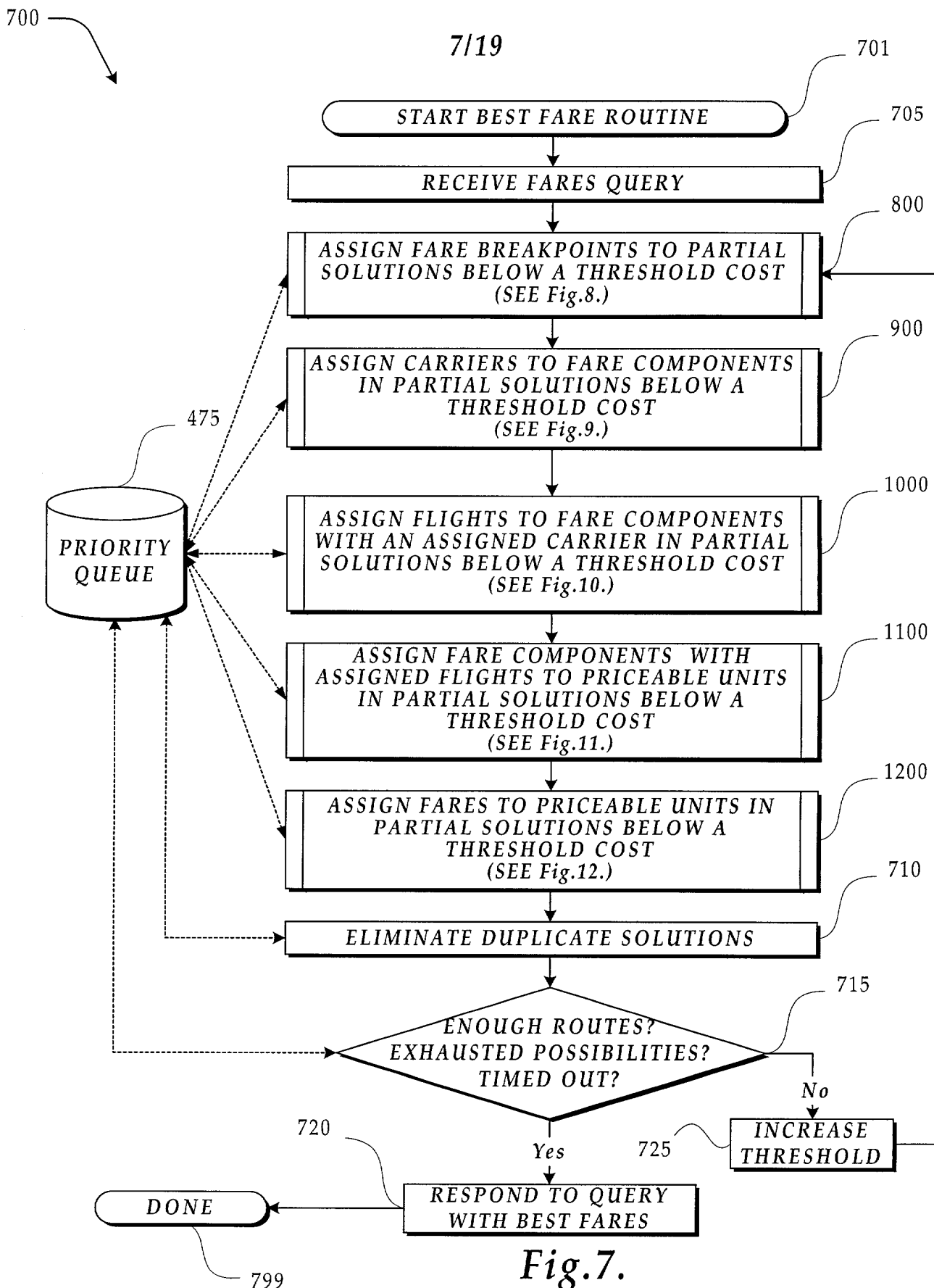


Fig.6.

700 701 705 800 900 1000 1100 1200 710 715 720 725 799



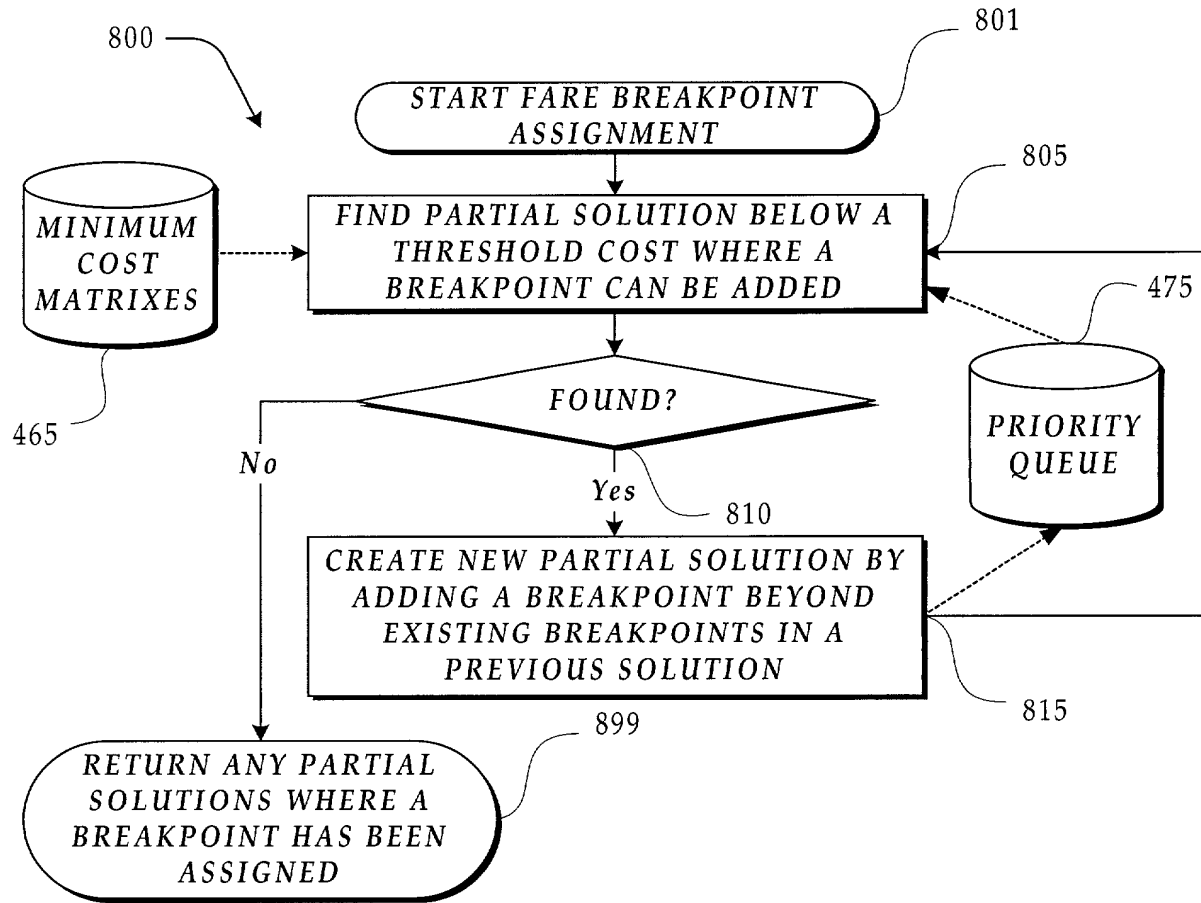


Fig.8.

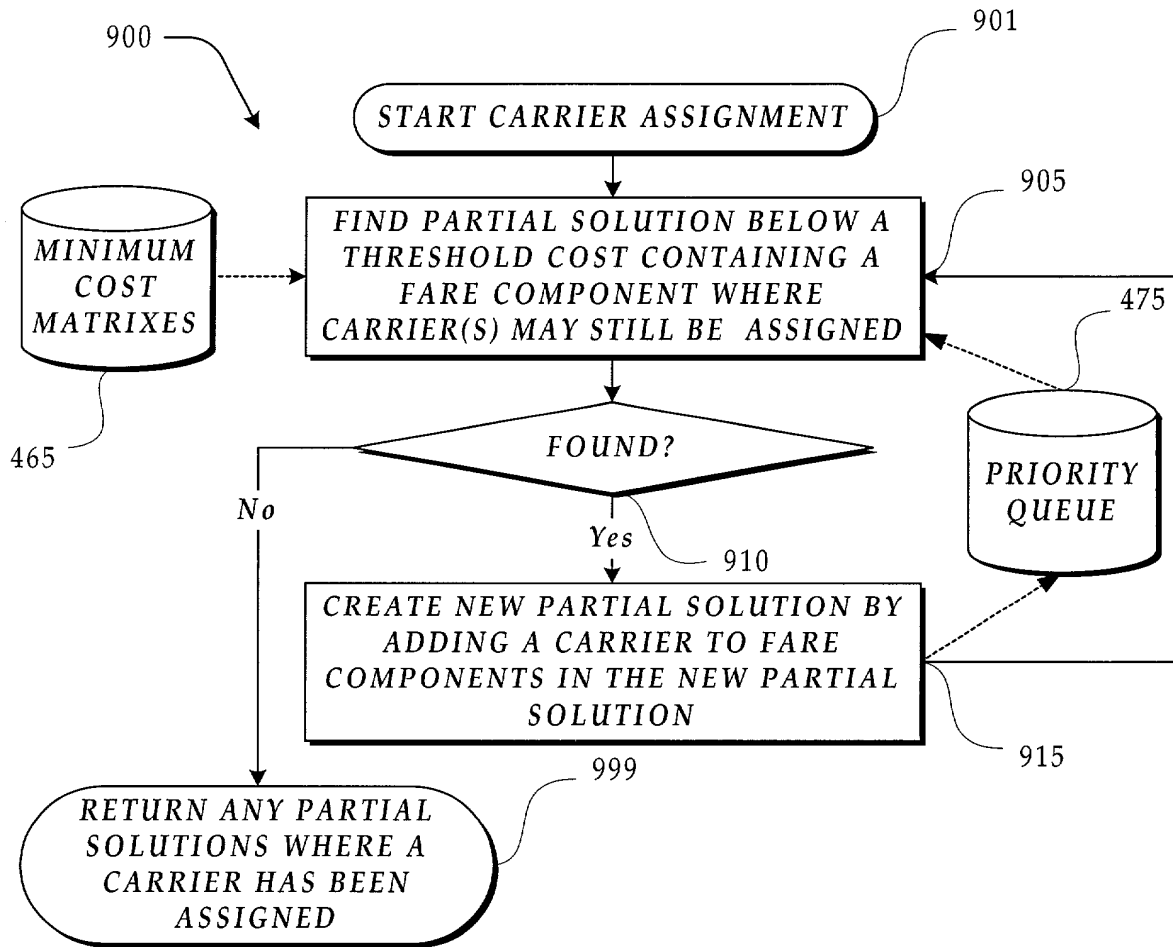


Fig.9.

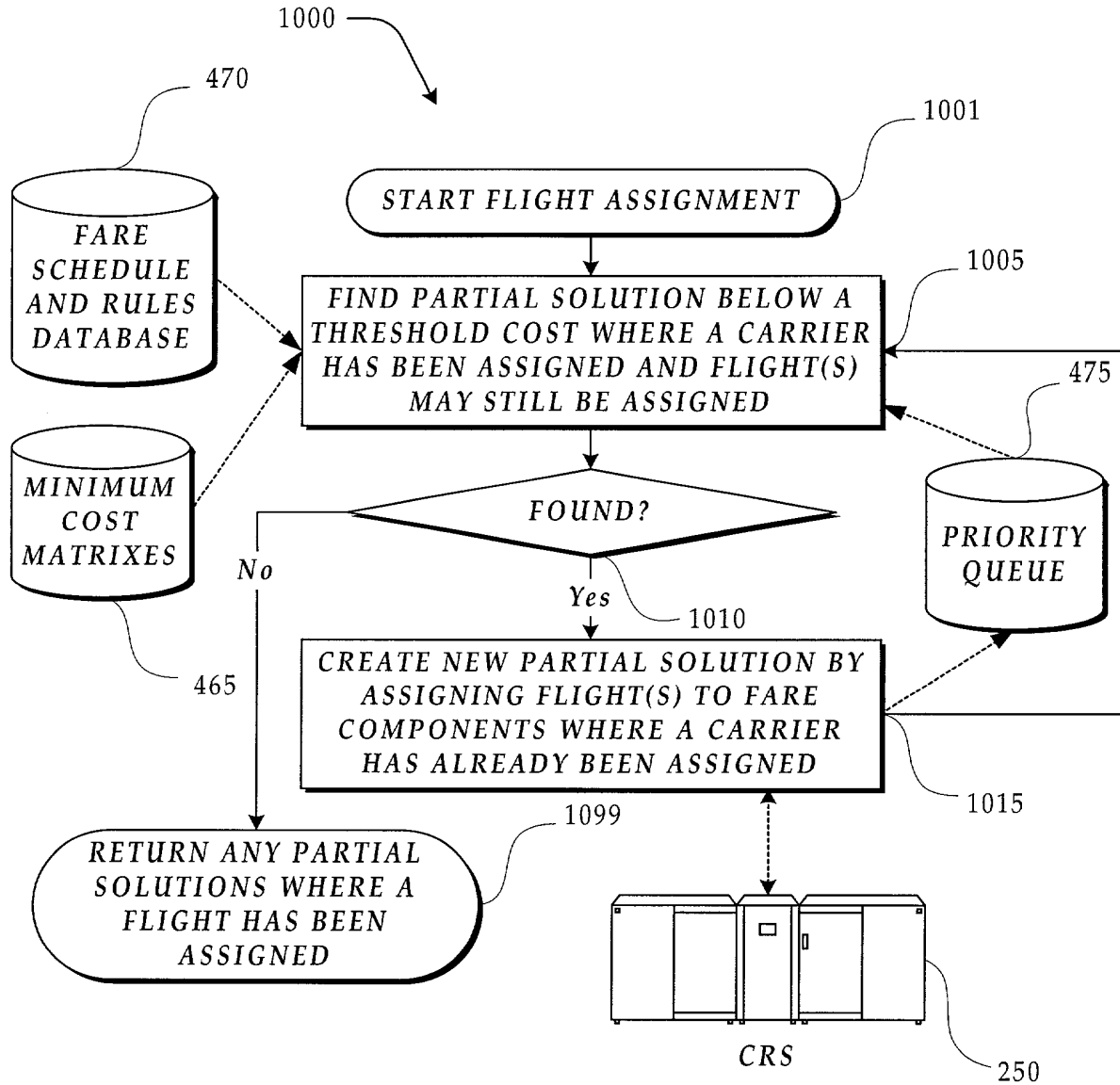


Fig.10.

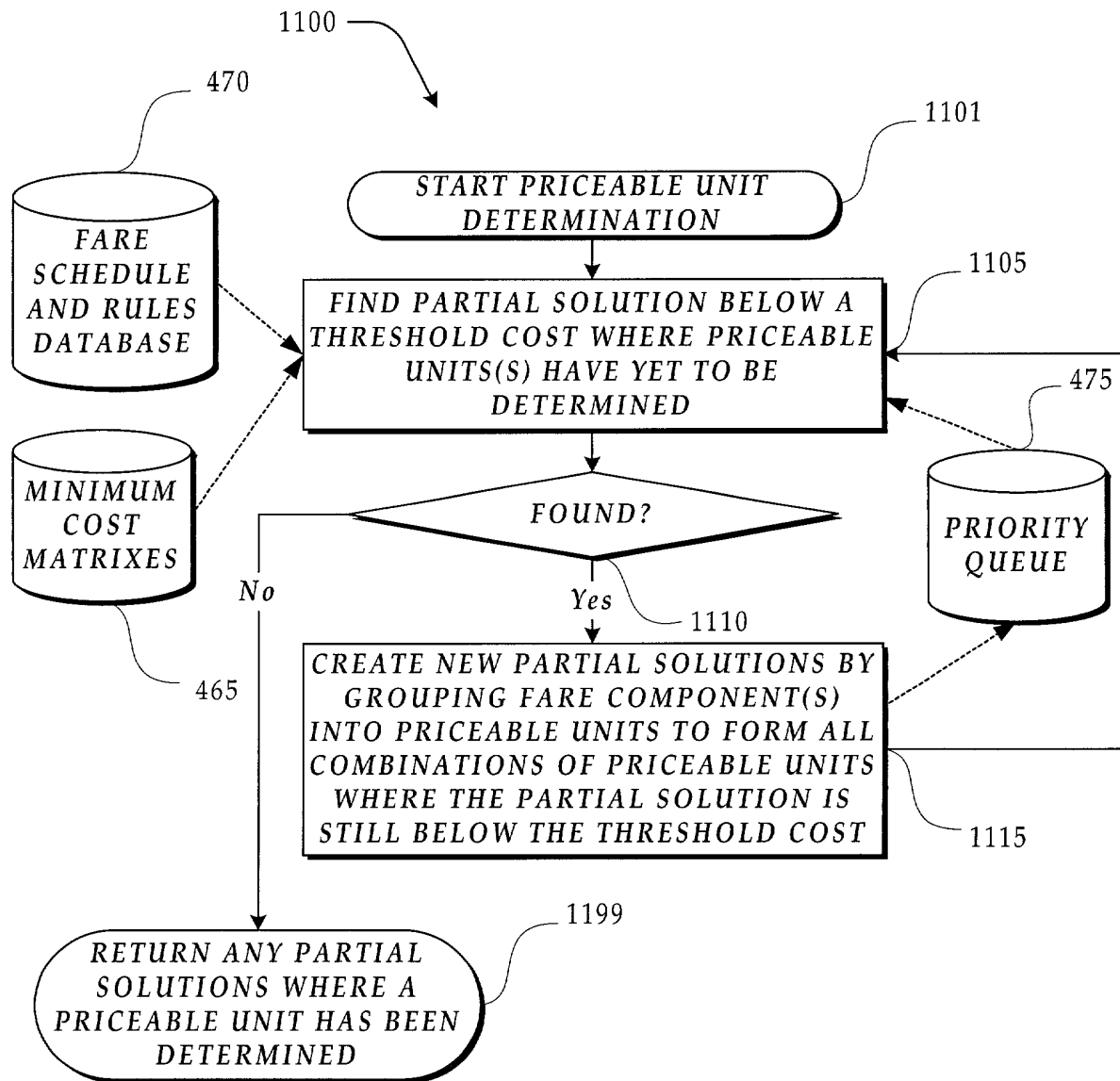


Fig.11.

12/19

1200

1201

465

MINIMUM
COST
MATRIXES

START FARE ASSIGNMENT

FIND PARTIAL SOLUTION BELOW A
THRESHOLD COST WHERE PRICEABLE
UNITS(S) HAVE BEEN DETERMINED
BUT FARES HAVE YET TO BE
ASSIGNED

1205

475

FARE
SCHEDULE
AND RULES
DATABASE

FOUND?

No

1210

Yes

RETURN ANY
PARTIAL SOLUTIONS
WHERE A PRICEABLE
UNIT HAS BEEN
DETERMINED

470

PRIORITY
QUEUE

1215

CREATE NEW PARTIAL SOLUTION BY
ASSIGNING A FARE TO A FARE
COMPONENT FOR WHICH A FARE HAS
NOT BEEN ASSIGNED

1299

APPLY FARE RULES

1220

INVALID FARE?

No

Yes

1225

DISCARD NEW PARTIAL SOLUTION

1230

Fig.12.

FIG. 12

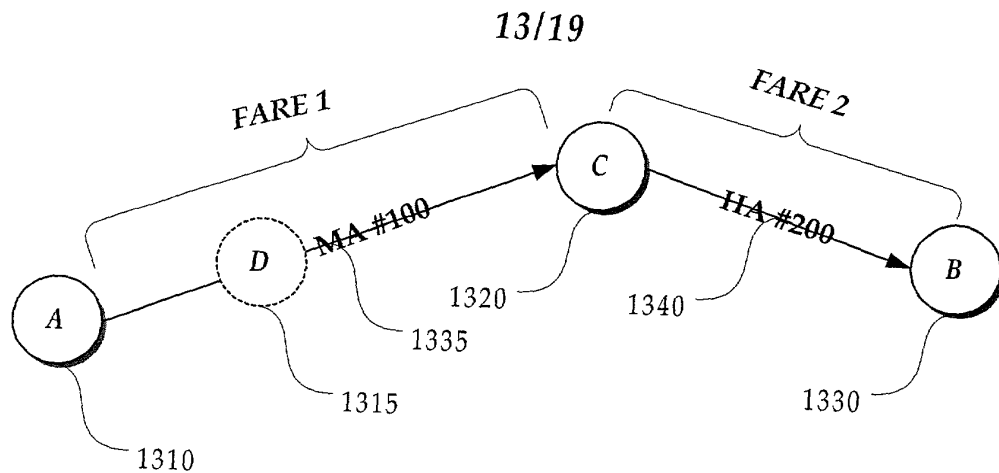


Fig.13A.

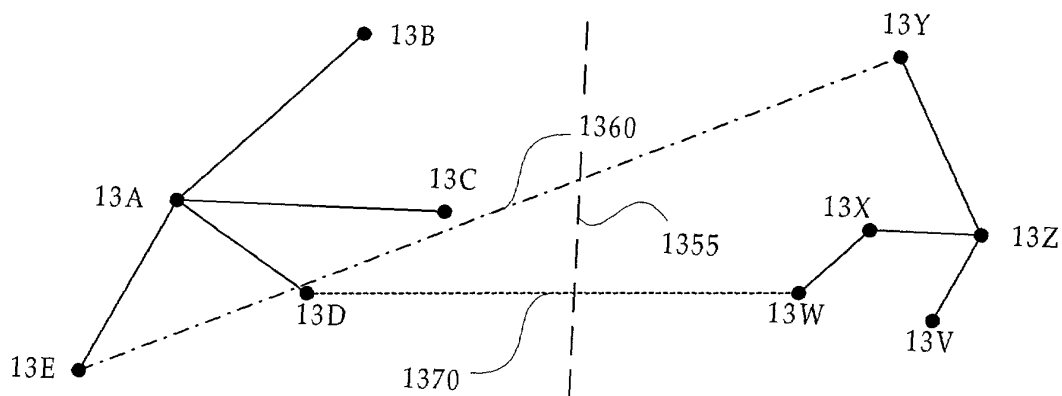


Fig.13B.

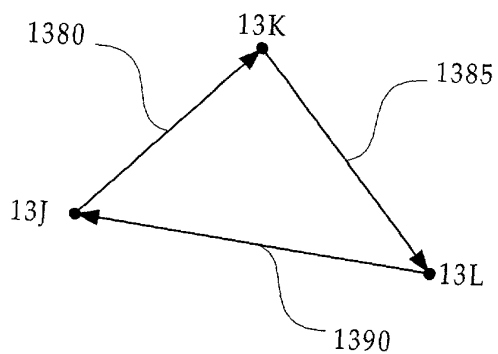


Fig.13C.

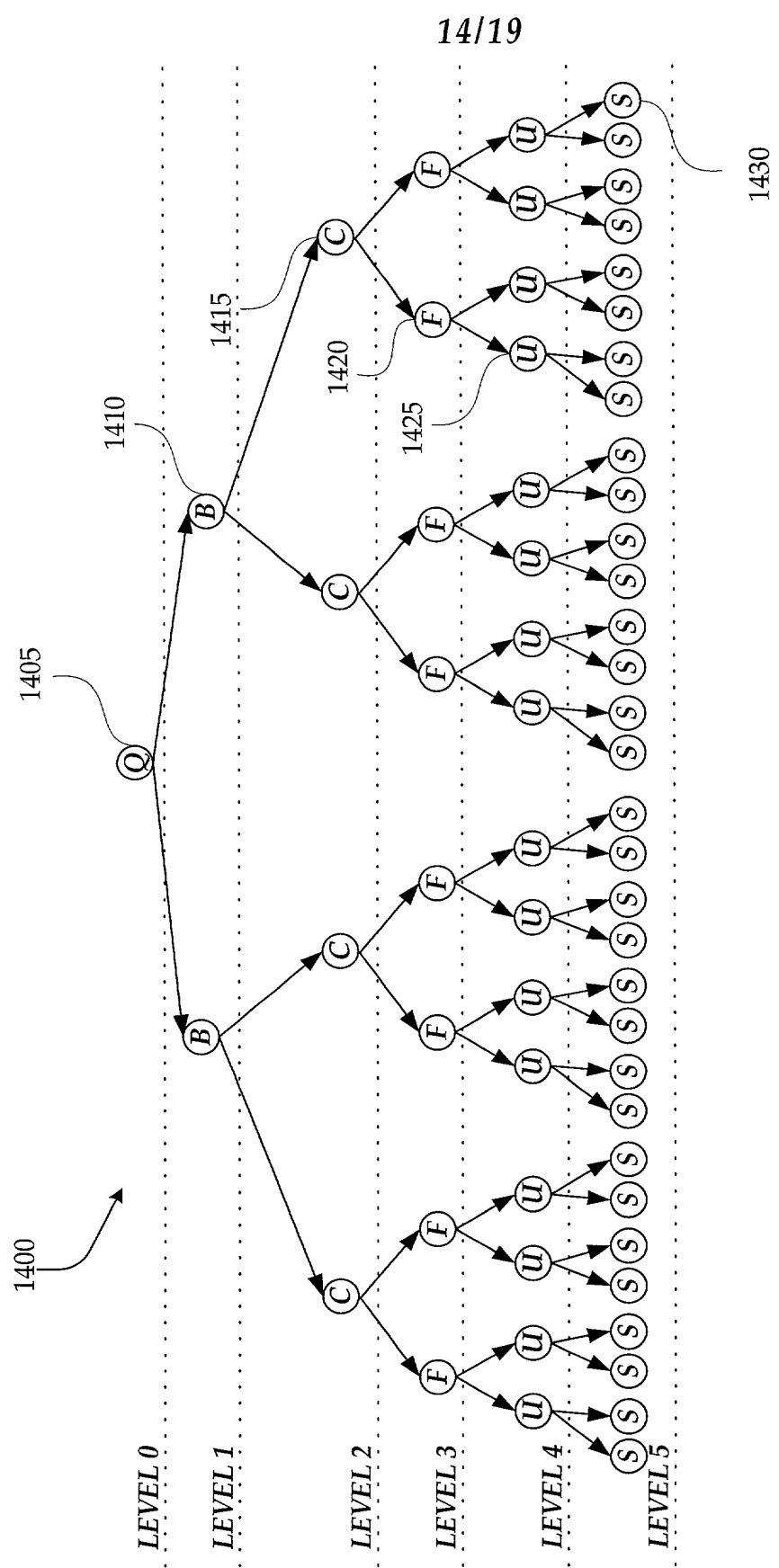


Fig.14. (Prior Art)

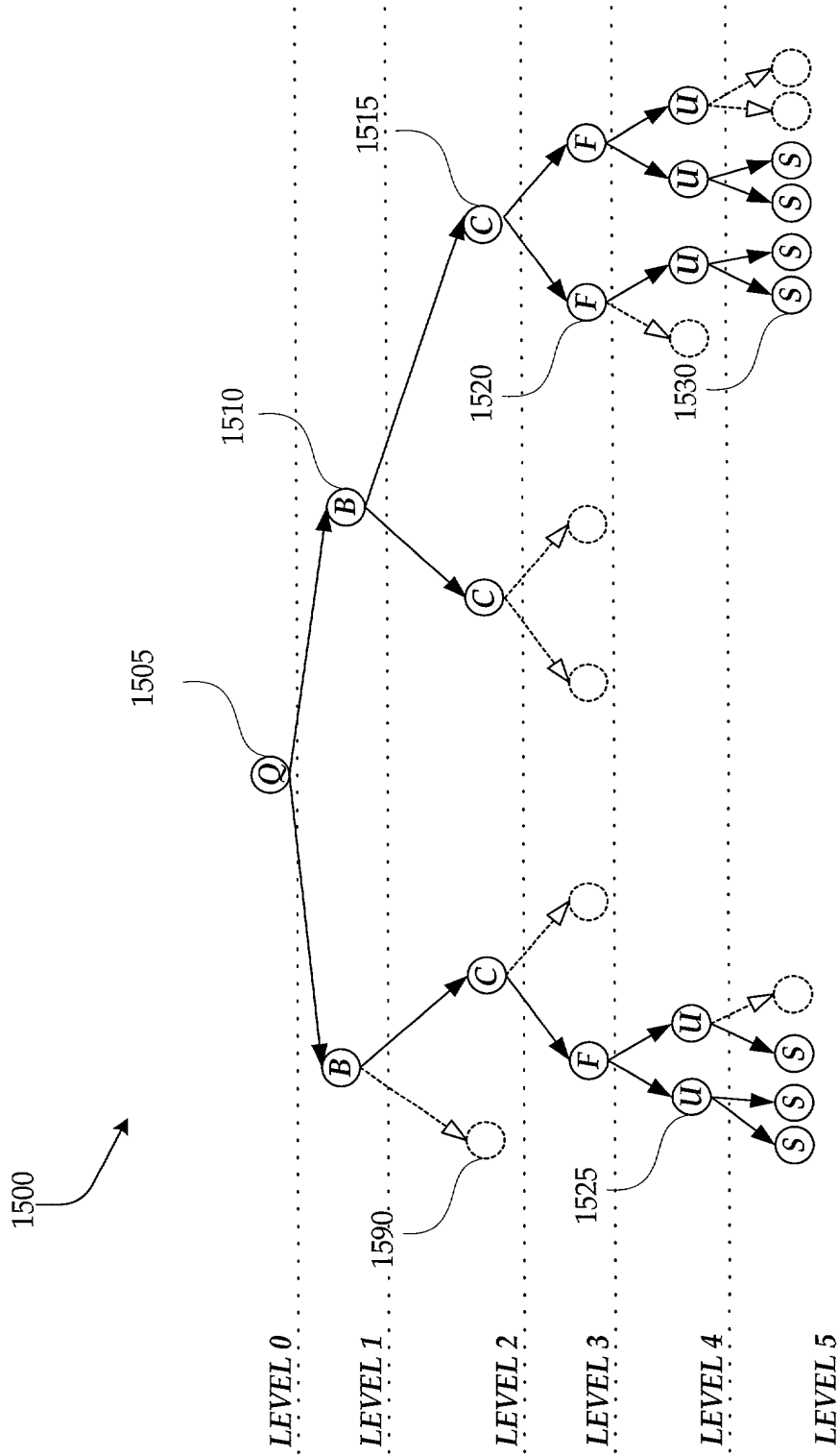


Fig.15.

FARE SEARCH

FARE SEARCH

☒ ROUND TRIP ☐ ONE WAY

LEAVING FROM: GOING TO:

DEPARTING: (MM/DD/YY) RETURNING: (MM/DD/YY)

ADULTS (12 TO 61) SENIORS (AGE 62+) CHILDREN (2 TO 11) INFANTS (UNDER 2)

☒ INFANTS IN SEATS ☐ INFANTS IN LAPS

SEARCH OPTIONS

1600

Fig.16.

FARE SEARCH

FARE SEARCH

SELECT YOUR DEPARTURE FLIGHT

<input checked="" type="radio"/>	\$175	DEPART LAX 9:01AM	04/16/01	CARRIER A
<input type="radio"/>	\$175	DEPART LAX 2:50PM	04/16/01	CARRIER A
<input type="radio"/>	\$181	DEPART LAX 10:40AM	04/16/01	CARRIER B

SUBMIT

1710

Fig.17A.

FARE SEARCH

FARE SEARCH

SELECT YOUR RETURN FLIGHT

<input checked="" type="radio"/>	\$175	DEPART SEA 10:30PM	04/26/01	CARRIER A
<input type="radio"/>	\$175	DEPART SEA 12:50PM	04/26/01	CARRIER A
<input type="radio"/>	\$181	DEPART LAX 6:20AM	04/26/01	CARRIER B

SUBMIT

1720

Fig.17B.

FARE SEARCH

FARE SEARCH

YOUR TOTAL FARE IS: \$175

DEPART:
LAX 9:01AM 04/16/01 CARRIER A

RETURN:
SEA 10:30PM04/26/01 CARRIER A

NEW SEARCH

1730

Fig.17C.